

DERWENT-ACC-NO: 1982-D1383E
DERWENT-WEEK: 198212
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TITLE: Cooled IC engine piston - has pressed steel main
body and
heat-resistant e.g. steel top welded on in annular cooling
chamber area

INVENTOR: DUERSCH, V

PATENT-ASSIGNEE: ALCAN ALUMINIUMWERKE GMBH [ALCN]

PRIORITY-DATA:
1980DE-3032671 (August 29, 1980)

PATENT-FAMILY:

PUB-NO	PUB-DATE	LANGUAGE
PAGES	MAIN-IPC	
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BASIC-ABSTRACT:

The i.c. engine piston has a cooling chamber (6) adjacent
to the piston ring
area (7) in the main piston body (1) and a piston top (2)
of e.g.
heat-resistant steel. The main body is a pressed steel
component and is
secured to the top by welding (3).

The (annular) cooling chamber (5,6) is pref. arranged in
the area where the two
parts (1,2) are joined and is bounded by the wall portions
of both parts.
There may be more than one such chamber separated by one or
more partitions
(4). These chambers may be connected via openings in the
partition, or the
chamber (5) nearest the piston head (10) may be evacuated,
gas-filled or filled

with insulating material whilst the other chamber (6)
receives a coolant
supply.

CHOSEN-DRAWING: Dwg.1

DERWENT-CLASS: Q52